

1 What is claimed is:

2 1. A method of displaying images using a wearable display device, comprising:
3 generating an inner region display signal;
4 determining at least one of a motion, brightness or color characteristic from the inner
5 region display signal;
6 generating an outer region display signal using the at least one motion, brightness or
7 color characteristic;
8 displaying an inner region of an image on a display using the inner region display
9 signal; and
10 displaying an outer region of the image on the display using the outer region display
11 signal, wherein the outer region is of substantially lower resolution than the inner region.

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13 2. The method of claim 1, wherein the step of generating an outer region display
14 signal comprises:
15 adjusting the outer region display signal so that the outer region of the image blends
16 with the inner region of the image.

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18 3. The method of claim 1, wherein the step of displaying an outer region of an image
19 comprises:
20 displaying an outer region of less than 5 cycles per degree resolution.

21
22 4. The method of claim 3, wherein the step of displaying an inner region of an
23 image comprises:
24 displaying a center of the inner region of at least 15 cycle per degree resolution.

1 5. The method of claim 3, wherein the step of displaying an outer region of an
2 image comprises:

3 illuminating an array of red, blue and green lights.

4
5 6. The method of claim 3, wherein the step of displaying an outer region of an
6 image comprises:

7 illuminating an array of white lights.

8
9 7. The method of claim 1, wherein the step of displaying an outer region of an image
10 comprises:

11 shining red, blue and green lights into a user's field of view.

12
13 8. A wearable display, comprising:

14 a display having an inner region and an outer region of substantially lower resolution
15 than the inner region; and

16 a controller operably coupled to the display, wherein the controller generates an
17 inner region display signal, and an outer region display signal using at least of one of a
18 motion, brightness or color characteristic from the inner region display signal.

19
20 9. The display of claim 8, wherein the outer region is of less than 5 cycles per
21 degree resolution.

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23 10. The display of claim 8, wherein the inner region is of at least 15 cycle per
24 degree resolution at a center of the inner region.

1 a controller operably coupled to the display, wherein the controller obtains image
2 signal data from a source image signal and generates a display signal by determining an
3 amount of distortion for the image signal data, and adjusting the image signal data so that a
4 source image conveyed by the image signal data is distorted according to the determined
5 amount of distortion, the distortion distorting the source image so that a field of view of the
6 image is expanded to the outer region of the display.

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8 17. The display of claim 16, wherein the distortion ratio between an inner region
9 and an edge of the source image is between 2:1 and 20:1.

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11 18. The wearable display of claim 16, comprising:

12 an image source coupled to the controller, wherein the image source generates the
13 source image signal.

14
15 19. The wearable display of claim 18, wherein the controller comprises:

16 a processor operably coupled to the image source, wherein the processor samples the
17 source image signal.

18
19 20. A wearable display, comprising:

20 a display for displaying images;

21 a controller operably coupled to the display, wherein the controller obtains image
22 signal data from a source image signal and generates a display signal for display by the
23 display; and

24 optics arranged in the wearable display, wherein the optics modify an image

1 displayed by the display by distorting an outer region of the image by a greater amount than
2 an inner region of the image so that a field of view of the image is increased.

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4 21. The wearable display of claim 20, wherein a distortion ratio between a portion
5 of the outer region and a portion of the inner region is between 2:1 and 20:1.

21. The wearable display of claim 20, wherein a distortion ratio between a portion

of the outer region and a portion of the inner region is between 2:1 and 20:1.

Run	Time	Temp	Pressure	Flow	Conc	Yield	Quality
1	10 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	0.1 g	Good
2	20 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	0.2 g	Good
3	30 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	0.3 g	Good
4	40 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	0.4 g	Good
5	50 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	0.5 g	Good
6	60 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	0.6 g	Good
7	70 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	0.7 g	Good
8	80 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	0.8 g	Good
9	90 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	0.9 g	Good
10	100 min	100°C	1.0 atm	1.0 ml/min	0.1 g/l	1.0 g	Good